

ABSTRACT OF THE DISCLOSURE

METHOD AND SYSTEM FOR NUCLEIC ACID SEQUENCING

5 A method of nucleic acid sequencing comprising the steps
 (a) amplifying a nucleic acid sample to produce an amplified DNA
 product; (b) extending a sequencing primer bound to the DNA
 product in the presence of terminating nucleotide analogs to
 produce a collection of labeled nucleic acid products; (c)
10 detecting a total amount of label present in the collection to
 produce a measurement; and (d) combining a plurality of
 measurements to determine DNA sequence information about the
 sample. A system for nucleic acid sequencing which uses
 terminating nucleotide analogs to quantitatively determine
15 fragment length and sequence information.

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